Ser. No. 10/594,284 Docket No. 3839

AMENDMENTS TO THE CLAIMS:

The following listing of the claims replaces all previous versions, and listings, of

the claims. Please cancel claim 7 without prejudice, add new claim 23, and

amend claims 2 to 6, 8, 17 and 22 as follows:

Claim 1. (canceled)

2. (currently amended) The method as recited in Claim 17 or 8, wherein the

surface of the refractory material is heated by the laser radiation to at least

2000°C.

3. (currently amended) The method as recited in Claim 17 or 8, wherein a power

density of 2 to 4 W per mm² is introduced into the surface.

4. (currently amended) The method as recited in Claim 17 or 8, wherein the

treatment with the laser radiation is carried out with an effective exposure time of

0.1 to 5 s.

5. (currently amended) The method as recited in Claim 17 or 8, wherein the

surface is treated using a laser beam with a scan rate of 1 - 10 mm/s, while the

laser beam on the surface has a diameter of 2 - 5 mm.

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 (currently amended) The method as recited in Claim 17 or 8, wherein-a laser beam said laser radiation has [[with]] a wavelength in the range of 9 to 11 μm-is used.

Claim 7. (canceled)

8. (currently amended) A method of treating refractory material of a Danner blowpipe or a drawing die that comes into contact with a glass melt during glass production, wherein said refractory material has a composition comprising Al₂O₃, SiO₂, ZrO₂ and another oxide, wherein said another oxide is MgO or CrO, and said refractory material is composed of fireclay, silimanite bricks, zirconium and zirconium-containing bricks, and/or fusion-cast bricks, said method consisting of the steps of:

a) treating a surface of the refractory material with laser radiation from a CO₂ laser so as to form a surface layer that is a closed vitreous layer on said surface, said closed vitreous layer containing components that are components of the refractory material;

The method as recited in Claim 17, wherein the surface is sprayed with a powder or a solution

b) before or during the treatment with the laser radiation, <u>spraying the surface with a powder or a solution</u>-or the ceramic body with a solution that contains [[the]] zirconium-containing and/or aluminium-containing compounds; and

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c) after the treating of the surface of the refractory material with the laser radiation, optionally tempering the refractory material.

Claims 9 to 16. (canceled)

- 17. (currently amended) A method of treating refractory material of a Danner blowpipe or a drawing die that comes into contact with a glass melt during glass production, wherein said refractory material has a composition comprising Al₂O₃, SiO₂, ZrO₂ and another oxide, wherein said another oxide is MgO or CrO₄ and said refractory material is composed of fireclay, silimanite bricks, zirconium and zirconium-containing bricks, and/or fusion-cast bricks, said method consisting of comprising-the steps of:
- a) treating a surface of the refractory material enly-with laser radiation from a CO₂ laser so as to form a surface layer that is a closed vitreous layer on said surface, said closed vitreous layer containing components that are components of the refractory material; and
- b) after the treating of the surface of the refractory material with the laser radiation, optionally tempering the refractory material.
- 18. (previously presented) The method as recited in Claim 17, wherein the surface layer has a thickness of 100 to 1000 μm .
- 19. (previously presented) The method as recited in Claim 17, wherein

zirconium-containing and/or aluminium-containing compounds are located in the surface layer.

Claim 20. (canceled)

- 21. (previously presented) The method as recited in claim 17, wherein prior to contact with the glass melt said surface is treated with said laser radiation to form said closed vitreous layer.
- 22. (currently amended) A method of manufacturing and/or processing a glass melt, said method comprising bringing the glass melt into contact with a surface of a refractory material composed of Al₂O₃, SiO₂, ZrO₂ and another oxide, wherein said another oxide is MgO or CrO, and said refractory material is composed of fireclay, silimanite bricks, zirconium and zirconium-containing bricks, and/or fusion-cast bricks, wherein prior to the bringing of the glass melt into contact with the surface of the refractory material said surface of the refractory material has been treated by a process consisting of the steps of:

 a) treating the surface of the refractory material enly with laser radiation
- a) treating the surface of the refractory material enty-with laser radiation from a CO₂ laser in order to form a surface layer that is a closed vitreous layer on said surface of said refractory material, said closed vitreous layer containing components that are components of the refractory material; and
- b) after the treating of the surface of the refractory material with the laser radiation, optionally tempering the refractory material

wherein the refractory material is composed of fireclay, silimanite bricks, zirconium and zirconium-containing bricks, and/or fusion-cast bricks.

- 23. (new) A method of manufacturing and/or processing a glass melt, said method comprising bringing the glass melt into contact with a surface of a refractory material composed of Al₂O₃, SiO₂, ZrO₂ and another oxide, wherein said another oxide is MgO or CrO, and said refractory material is composed of fireclay, silimanite bricks, zirconium and zirconium-containing bricks, and/or fusion-cast bricks, wherein prior to the bringing of the glass melt into contact with the surface of the refractory material has been treated by a process consisting of the steps of:
- a) treating the surface of the refractory material with laser radiation from a CO₂ laser in order to form a surface layer that is a closed vitreous layer on said surface of said refractory material, said closed vitreous layer containing components that are components of the refractory material;
- b) before or during treatment of the surface with the laser radiation
 optionally spraying the surface of the refractory material with a powder or solution
 that contains zirconium-containing and/or aluminium-containing compounds; and
- c) after the treating of the surface of the refractory material with the laser radiation, optionally tempering the refractory material.